

# Long Branch Lake

Macon County

2006 DATA



	Date	Secchi (inches)	TP (µg/L)	TN (µg/L)	CHL (µg/L)	ISS (mg/L)
Site 1	5/2	34	35	700	17.1	4.8
	5/23	32	32	660	14.8	6.1
	6/27	34	37	750	12.1	4.9
	7/23	28	30	840	11.4	6.6
	8/21	34	29	840	31.3	2.8
	<b>Mean</b>	<b>32</b>	<b>32</b>	<b>754</b>	<b>16.1</b>	<b>4.8</b>
Site 2	5/2	5	303	2490	43.0	133.5
Site 3	5/2	4	473	4090	46.3	168

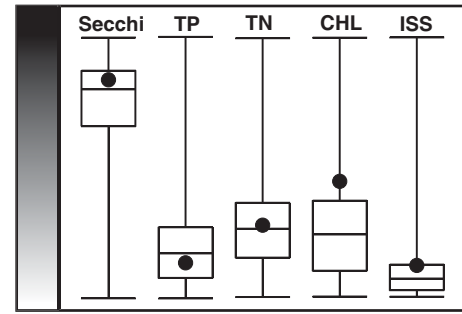
2006 SUMMARY

Five samples were collected at the Long Branch Lake dam, and one sample was collected in each arm. Low water levels in 2006 limited sampling at sites 2 and 3.

Secchi transparency values and phosphorus concentrations at site 1 were very consistent throughout the season, with high and low values not exceeding 16% of the mean.

The maximum chlorophyll concentration coincides with the lowest suspended sediment concentration observed in 2006. The chlorophyll to phosphorus ratio was greater than 1:1 at this time, indicating a possible algae bloom.

Long Branch Lake had mean nutrient concentrations and Secchi transparency within the middle 50% of Missouri lakes. ISS and chlorophyll concentrations were higher than seen in 75% of Missouri lakes.



Relative Rank Graph  
See page 11 for details

TRENDS

Phosphorus concentrations have been below the overall mean for four consecutive years, and have exhibited low variability, with little difference between maximum and minimum values. Mean chlorophyll concentrations were above the overall mean for the second consecutive year.

